frivol

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Chapter 1

Class Index

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Here are the classes,	structs,	unions	and	interfaces	with	brief	descriptions

frivol::Array< T >	
Simple fixed-size array of elements of type T	
frivol::PriorityQueueConcept< X, PriorityT >	

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Chapter 2

Class Documentation

2.1 frivol::Array < T > Class Template Reference

Simple fixed-size array of elements of type T.

```
#include <array.hpp>
```

Public Member Functions

- Array (Idx size)
- Idx getSize () const

Returns the size of the array.

- const T & operator[] (Idx index) const
- T & operator[] (Idx index)

2.1.1 Detailed Description

template<typename T>class frivol::Array< T>

Simple fixed-size array of elements of type T.

2.1.2 Constructor & Destructor Documentation

2.1.2.1 template < typename T > frivol::Array < T >::Array (Idx size)

Creates an array with all elements default-constructed.

Parameters

size The size of the array.

2.1.3 Member Function Documentation

2.1.3.1 template < typename T > const T & frivol::Array < T >::operator[] (ldx index) const

Returns reference to an element in the array.

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Parameters

index The zero-based index of the eleme

Exceptions

std::out of range if FRIVOL ARRAY BOUNDS CHECKING is defined and 'index' overflows.

2.1.3.2 template<typename T > T & frivol::Array< T >::operator[] (ldx index)

Returns reference to an element in the array.

Parameters

indov	The zero-based index of the elemen	ıt
muex	The Zero-based maex of the elemen	ıı.

Exceptions

```
std::out of range | if FRIVOL ARRAY BOUNDS CHECKING is defined and 'index' overflows.
```

The documentation for this class was generated from the following files:

- /home/topi/unison/Asiakirjat/frivol/frivol/array.hpp
- /home/topi/unison/Asiakirjat/frivol/frivol/array_impl.hpp

2.2 frivol::PriorityQueueConcept < X, PriorityT > Class Template Reference

#include <priority_queue_concept.hpp>

Public Member Functions

- BOOST_CONCEPT_ASSERT ((boost::LessThanComparable < PriorityT >))
- BOOST_CONCEPT_USAGE (PriorityQueueConcept)

Public Attributes

- Idx size
- Idx key
- PriorityT priority

2.2.1 Detailed Description

template<typename X, typename PriorityT>class frivol::PriorityQueueConcept< X, PriorityT>

Concept checking class for priority queues X with priority values of type PriorityT (or NIL). Priority queues are initialized with given size, and contain priority values for keys 0, 1, ..., size-1. Initially, all priority values are NIL. C must support the following operations:

- <construct>(ldx size) creates priority queue for keys 0, 1, ..., size-1.
- bool empty() returns true if all keys have NIL priority.
- Idx pop() returns the key with lowest non-NIL priority and sets the priority of that key to NIL.

- void setPriority(Idx key, PriorityT priority) sets the priority value of key 'key' to non-NIL value 'priority'.
- void setPriorityNIL(Idx key) sets the priority value of key 'key' to NIL. X may assume that PriorityT is ordered with <-operator. X may have undefined behavior if supplied keys are out of range or if pop() is called when empty() returns true.

The documentation for this class was generated from the following file:

• /home/topi/unison/Asiakirjat/frivol/frivol/priority_queue_concept.hpp